

ARG51804 anti-PKM2 phospho (Ser37) antibody

Package: 100 µl, 50 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes PKM2 phospho (Ser37)
Tested Reactivity	Hu
Tested Application	ICC/IF, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	PKM2
Species	Human
Immunogen	Peptide sequence around phosphorylation site of serine 37(I-D-S(p)-P-P) derived from Human PKM2.
Conjugation	Un-conjugated
Alternate Names	PK3; PKM2; OIP3; Pyruvate kinase muscle isozyme; CTHBP; HEL-S-30; THBP1; OIP-3; Pyruvate kinase 2/3; Tumor M2-PK; Cytosolic thyroid hormone-binding protein; EC 2.7.1.40; Opa-interacting protein 3; p58; TCB; Pyruvate kinase PKM; Thyroid hormone-binding protein 1

Application Instructions

Application table	Application	Dilution
	ICC/IF	1:100 - 1:200
	WB	1:500 - 1:1000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

Properties

Form	Liquid
Purification	Antibodies were produced by immunizing rabbits with KLH-conjugated synthetic phosphopeptide. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. In addition, non-phospho specific antibodies were removed by chromatography using non-phosphopeptide.
Buffer	PBS (without Mg ²⁺ and Ca ²⁺ , pH 7.4), 150mM NaCl, 0.02% Sodium azide and 50% Glycerol.
Preservative	0.02% Sodium azide
Stabilizer	50% Glycerol
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

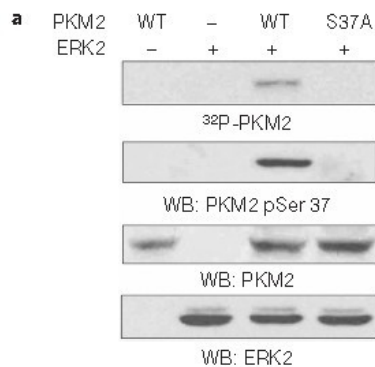
Note

For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

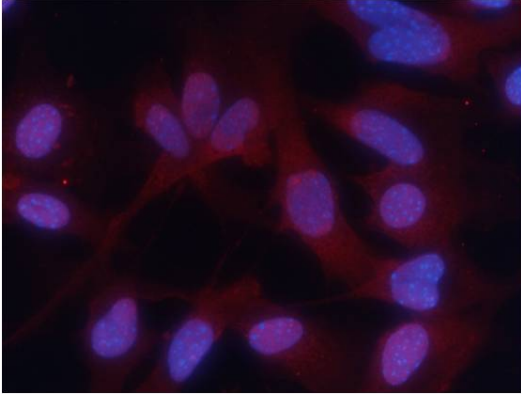
Database links	GeneID: 5315 Human Swiss-port # P14618 Human
Gene Symbol	PKM
Gene Full Name	pyruvate kinase, muscle
Background	Glycolytic enzyme that catalyzes the transfer of a phosphoryl group from phosphoenolpyruvate (PEP) to ADP, generating ATP. Stimulates POU5F1-mediated transcriptional activation. Plays a general role in caspase independent cell death of tumor cells. The ratio between the highly active tetrameric form and nearly inactive dimeric form determines whether glucose carbons are channeled to biosynthetic processes or used for glycolytic ATP production. The transition between the 2 forms contributes to the control of glycolysis and is important for tumor cell proliferation and survival.
Function	Glycolytic enzyme that catalyzes the transfer of a phosphoryl group from phosphoenolpyruvate (PEP) to ADP, generating ATP. Stimulates POU5F1-mediated transcriptional activation. Plays a general role in caspase independent cell death of tumor cells. The ratio between the highly active tetrameric form and nearly inactive dimeric form determines whether glucose carbons are channeled to biosynthetic processes or used for glycolytic ATP production. The transition between the 2 forms contributes to the control of glycolysis and is important for tumor cell proliferation and survival. [UniProt]
Highlight	Related Antibody Duos and Panels: ARG30014 Phospho PKM2 Antibody Duo (Total, pS37) Related products: PKM2 antibodies ; PKM2 Duos / Panels ; Anti-Rabbit IgG secondary antibodies ;
Research Area	Cancer antibody; Gene Regulation antibody; Metabolism antibody; Signaling Transduction antibody; Colorectal Carcinoma Marker antibody
Calculated Mw	58 kDa
PTM	ISGylated. Under hypoxia, hydroxylated by EGLN3. Acetylation at Lys-305 is stimulated by high glucose concentration, it decreases enzyme activity and promotes its lysosomal-dependent degradation via chaperone-mediated autophagy. FGFR1-dependent tyrosine phosphorylation is reduced by interaction with TRIM35.

Images



ARG51804 anti-PKM2 phospho (Ser37) antibody WB image

Western blot: in vitro kinase assays carried out with purified active ERK2, wild-type (WT) PKM2 and PKM2 S37A mutant stained with ARG51804 anti-PKM2 phospho (Ser37) antibody.



ARG51804 anti-PKM2 phospho (Ser37) antibody ICC/IF image

Immunofluorescence: methanol-fixed MEF cells stained with ARG51804 anti-PKM2 phospho (Ser37) antibody.